

Technical Data – Audi A8 3.0 TFSI quattro

Program for Germany -Status: July 2010

Model	Audi A8 3.0 TFSI quattro
Engine / electronics	
Engine type	Aluminum V6 spark-ignition engine with gasoline direct injection, DOHC, mechanical charger module with two intercoolers, two charge movement flaps, demand-controlled high-pressure and low-pressure fuel system
Valve gear / number of valves per cylinder	Continuous intake camshaft adjustment / 4
Displacement in cc	2995 / 84.5 x 89 / 10.3
Max. power output in kW (hp) / at rpm	213 (290) / 4850 - 6500
Max. torque in Nm (lb-ft) / at rpm	420 (309.78) / 2500 - 4850
Mixture preparation	Fully electronic engine management with drive-by-wire throttle control; SIMOS 8, gasoline direct injection, cylinder-selective lambda control, mapped ignition with solid-state high-voltage distribution, cylinder-selective adaptive knock control; manifold-pressure controlled system
Exhaust emission control	Two close-coupled ceramic main catalytic converters each with a pre- and post- catalyst oxygen sensor, secondary air system
Emissions class	EU 5
Alternator in A / battery in A/Ah	190 (water-cooled) / 450/95
Recuperation	Temporarily stores braking energy in the battery, and thus aids driving off and acceleration
Drivetrain / transmission	
Drive type	quattro permanent all-wheel drive with self-locking center differential, ESP
Clutch	Hydraulic torque converter with lock-up clutch
Transmission type	8-speed tiptronic with DSP and sport program
Gear ratio in 1st gear / 2nd gear	4.714 / 3.143
Gear ratio in 3rd gear / 4th gear	2.106 / 1.667
Gear ratio in 5th gear / 6th gear	1.285 / 1.000
Gear ratio in 7th gear / 8th gear	0.839 / 0.667
Reverse gear / final drive ratio	3.317 / 3.204
Suspension / steering / brakes	
Front suspension	Five-link front suspension, upper and lower wishbones, tubular anti-roll bar, air suspension
Rear suspension	Trapezoidal-link suspension with wishbones, tubular anti-roll bar, air suspension
Steering / steering ratio / turning circle in meters (D102) (feet)	Maintenance-free rack-and-pinion steering with speed-dependent power assistance / 15.1 / approx. 12.3 m (40.35)
Brake system	Dual-circuit brake system with diagonal split with ESP/ABS/EBD, brake booster; hydraulic brake assist; front and rear disk brakes: ventilated; electromechanical parking brake
Wheels / tires	Lightweight forged aluminum wheels 8.0Jx17 / 235/60R17 102Y
Performance / consumption / acoustics	
Top speed in km/h (mph)	250 (155.34) (governed)
Acceleration, 0-100 km/h (0-62.14 mph) in sec	6.1
Fuel / octane value	Premium sulfur-free according to DIN EN 228 / 95 RON
Fuel consumption: city / highway / combined, l/100 km (US mpg)	12.9 (18.23) / 6.9 (34.09) / 9.1 (25.85)
CO2 mass emission, g/km (g/mile)	300 (482.80) / 162 (260.71) / 213 (342.79)
Idling / drive-past exterior noise level in dB (A)	73 / 73
Servicing / guarantee (Germany)	
LongLife Service after max. km (miles)	30,000 km (18,641) / 2 years
Vehicle / paint / rust perforation guarantee	2 / 3 / 12 (years)
Insurance classification in Germany: third party / fully comprehensive / part-	21 / 28 / 28
Weights / loads	
Unladen weight according to EU (excluding driver) / gross weight limit; in kg (pounds)	1830 (4,034.46) / 1905 (4,199.81) / 2520 (5,555.65)
Axle load limit at front / rear in kg (pounds)	1275 (2,810.89) / 1395 (3,075.45)
Trailer load limit on 8% / 12% gradient, braked / unbraked in kg (pounds)	2300 (5,070.63) / 2300 (5,070.63) / 750 (1,653.47)
Roof load limit in kg / permissible nose weight in kg (pounds)	100 (220.46) / 95 (209.44)
Capacities	
Engine oil capacity (including filter) in liters (US quarts)	8.1 (8.56)
Fuel tank capacity in liters (US gallons)	90 (23.78)
Body / dimensions	
Body type / number of doors / seats	Aluminum: Audi Space Frame ASF / 4 / 5
Drag coefficient Cd / frontal area A in m2 (square feet)	0.27 / 2.41 (25.94)
Length (L103) / width excl. mirrors (W103) / height (H101-M), mm (feet)	5137 (16.85) / 1949 (6.39) / 1460 (4.79)
Wheelbase (L101) / track at front/rear (W101-1/W101-2), mm (feet)	2992 (9.82) / 1644 (5.39) / 1635 (5.36)
Height of loading lip in mm (H196) (feet)	690 (2.26)
Luggage capacity in liters (cubic feet), according to VDA block method (V211) / rear seat bench folded	510 (18.01) / -